eBridge PCRM Series
IP and PoE/PoE+ over Coax Solution
Multi-Port Receivers

eBridge4PCRM
eBridge8PCRM
eBridge16PCRM

Description

Altronix eBridge4PCRM, eBridge8PCRM, and eBridge16PCRM are four (4), eight (8) and sixteen (16) port EoC Receivers that transmit data and power over coax cable in a PoE-compliant format. They are powered by a UL Listed limited power source such as a mid-span or endspan. Units pass PoE/PoE+ up the coax to an eBridge1PCT, eBridge1PCTX or eBridge1ST transceiver. The transceiver, in turn, delivers that PoE-compliant power to an edge device/camera. These plug and play units facilitate system upgrades from analog to IP utilizing existing legacy Coax and eliminate the costs and labor associated with installing new network cabling. Data transmission and power over the Coax is possible up to 500m in comparison to 100m Ethernet distance (CAT5e). A maximum range from headend to the edge device/camera is 700m, taking into consideration that up to 100m of structured cable may be deployed from the receiver to the network switch and the transceiver to the edge device/camera.

Key Features

- IEEE 802.3af (15W) and IEEE 802.3at (30W).
- 25Mbps of data at distances up to 500m over Coax.
- Eliminates the costs and labor associated with installing new network cabling.
- Retrofit digital IP cameras in an analog CCTV installation.
- Auto detection and protection of legacy non-PoE cameras/devices.
- Works with Megapixel, HD720, HD1080 & VGA (SD) cameras.
- Extends Network link distance in an industrial environment.
- Upgrades deployed CCTV Coax to a digital network for Retail, Casinos, Airports, Schools, Hospitals, etc.
- UL Listed in the U.S. and Canada.
- CE Approved.
- C-Tick compliant.
- Lifetime Warranty / Made in the U.S.A.

Compatible Transceivers

eBridge1PCT
IP and PoE over Coax Hardened Transceiver
Delivers IP video/data over coax up to 500m @ 25Mbps.
Supports PoE (IEEE 802.3af).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.

eBridge1PCTX
IP and PoE/PoE+ over Coax Hardened Transceiver
Delivers IP video/data over coax up to 500m @ 25Mbps.
Supports PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.

eBridge1ST
IP and PoE/PoE+ over Coax Hardened Mini Transceiver
Delivers IP video/data over coax up to 500m @ 25Mbps.
Supports PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1) . CE Approved.

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Specifications

Input

Powered by a UL Listed limited power source, PoE midspan or endspan.

Ethernet

Connectivity: RJ45, auto-crossover.
- eBridge4PCRM - Four (4) ports.
- eBridge8PCRM - Eight (8) ports.
- eBridge16PCRM - Sixteen (16) ports.

Wire type: 4-pair CAT5 or better structured cable.

Distance: up to 100m.

Coax

Throughput is rated to pass 25Mbps of data at distances up to 500m.

With proper headend equipment multiple Megapixel cameras can be used.

Speed: 10/100BaseT, half/full duplex, auto negotiation.

Connectivity: BNC, RG-59/U or similar.

Indicators (LED)

Yellow and Green LED (by RJ45 jack): IP Link status, 10/100Base-T/active.

Green LED: PoE ON.

Blue LED: Coax link connection.

Agency Listings

UL/cUL: UL 60950-1 (Information Technology Equipment).

CE: European Conformity.

C-Tick compliant.

Physical and Environmental

Dimensions (H x W x D)

eBridge4PCRM:
1.7" x 5.25" x 9.25" (43.8mm x 133.4mm x 235mm).

eBridge8PCRM and eBridge16PCRM:
1U rack mount chassis for use in standard EIA 19" rack.
1.625" x 19.125" x 8.5" (42mm x 486mm x 216mm).

Product/Shipping Weight (approx.)

Model	Product Weight	Shipping Weight
eBridge4PCRM	1.35 lbs. (0.61 kg)	1.7 lbs. (0.77 kg)
eBridge8PCRM	5.8 lbs. (2.63 kg)	7.8 lbs. (3.54 kg)
eBridge16PCRM	7.2 lbs. (3.27 kg)	9.2 lbs (4.17 kg)

Temperature

Operating: -20ºC to 49ºC (-4ºF to 120.2ºF).

Storage: -30ºC to 70ºC (-22º to 158ºF).

Relative Humidity: 85% +/-5%.

Operating Altitude: -304.8 to 2,000m.

Accessories

NetWay8M

NetWay8M and NetWay16M

Provide input power for Pace receivers.
Eight (8) or sixteen (16) port managed midspans.
UL/cUL Listed (UL60950-1 and UL294). CE Approved.

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